System Requirements

SuccessMaker 3

PEARSON

System requirements are subject to change. For the latest information on system requirements, go to http://support.pearsonschool.com.

For more information about Digital Learning Solutions, go to www.pearsonschool.com/digital.

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Contents

Overview 4
Stand-alone Deployment 5
One Concurrent Student 6
Single Server Deployment 7
Up to 200 Concurrent Students 8
Up to 400 Concurrent Students 9
Up to 1000 Concurrent Students 10
Up to 3000 Concurrent Students 11
Multiple Server Deployment 12
Up to 5000 Concurrent Students 13
Up to 7000 Concurrent Students 15
Web/Content Server 17
Up to 80 Concurrent Students 18
Up to 2000 Concurrent Students 19
Up to 7000 Concurrent Students 20
Windows Clients 21
Mac Clients 22
Network Bandwidth 23
Firewall Settings 24

1

Overview

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance for the SuccessMaker 3 product.

Your site's actual performance may vary due to different configurations, including the following:

- Server application load
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Courseware usage
- Other variables

System requirements are subject to change because of rapid advances and changes in technology, as well as future product enhancements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative or Sales Engineer.

2

Stand-alone Deployment

The Stand-alone deployment supports one workstation that acts as the client and server at the same time. See Figure 1 - Sample Stand-alone Deployment.

Figure 1 - Sample Stand-alone Deployment

One Concurrent Student

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports one concurrent client With a total student population of 40 Requires one dedicated physical client	
Client running: Web, Application, and Database	
Can be:	Windows® XP Home SP3 (x86) Windows XP Professional SP3 (x86) Windows Vista® Home Basic (x86) Windows home Premium (x86) Windows Vista Business SP2 (x86) Windows Vista Ultimate SP2 (x86) Windows 7 Home Premium (x86) Windows 7 Professional (x86) Windows 7 Ultimate (x86) Mac OS® X 10.5.x (x86) Mac OS X 10.6.x (x86)
With at least:	Either a single PowerPC G4 1.4 GHz processor Or a single Intel Pentium® M 1.4 GHz processor 1 GB of RAM Single 100 Mbit/s Network Interface Card Dual-layer DVD-ROM Single 5400 RPM IDE hard drive 30 GB of available disk space Capable of 1024x768 resolution Any Creative Labs or 100% compatible sound card Any Speakers or Stereo Headphones Microphone with noise canceling
And installed:	Internet Explorer® 6.x SP2 (x86) Internet Explorer 7.x or 8.x (x86) Safari® 3.x, 4.x or 5.x (x86) Java Runtime Environment™ 1.5.14-21 or 1.6.x (x86) Adobe® Reader® 8.x or 9.x (Teacher only) Adobe Flash® Player 9.x or 10.x

3

Single Server Deployment

The single server deployment is a model in which all components of the software are installed on one physical server.

Typically, the single server is located in a lab or other school location used by the lab or individual school. See Figure 2 - Sample Single Server. The single server can be available to multiple schools, if all requirements are met, including the concurrent student limitation. See Figure 3 - Sample Single Server with Multiple Schools.

Depending on the requirements, a single server can be an effective and low cost solution, one that requires less power and provides simple installation and maintenance.

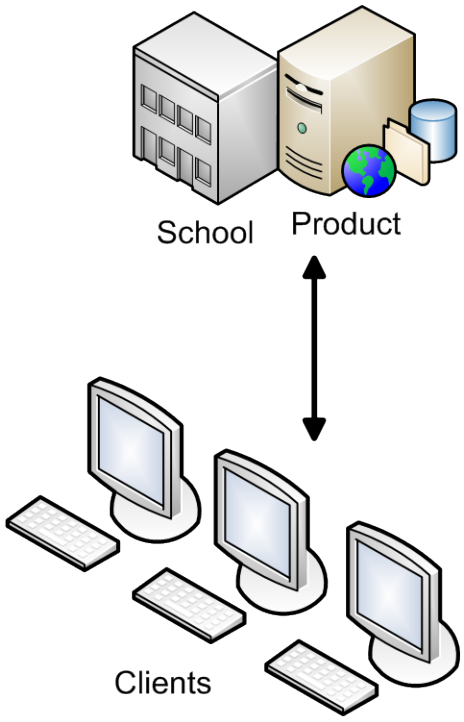


Figure 2 - Sample Single Server

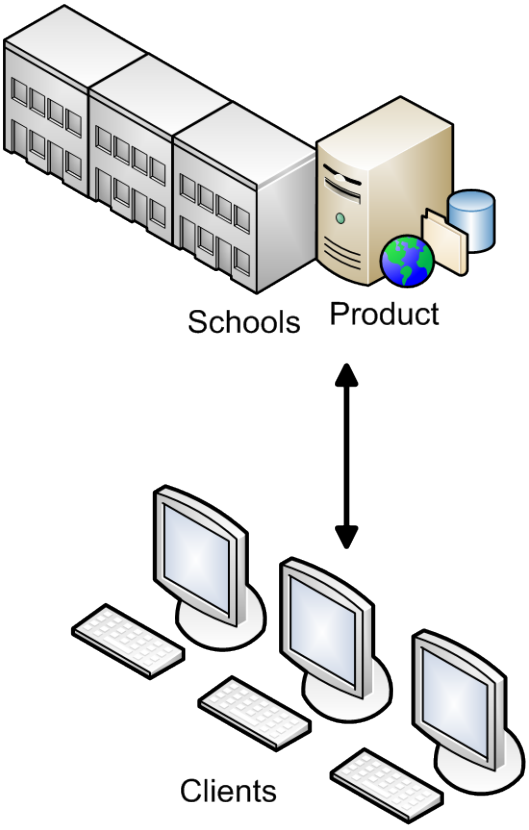


Figure 3 - Sample Single Server with Multiple Schools

Up to 200 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 200 concurrent clients With a total student population of 1,500 Requires one dedicated physical server	
Server running: Web, Application, and Database	
Can be:	Windows Server® 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell® Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel® Core 2 Duo 2.13 GHz processor 2 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Single 7200 RPM SATA hard drive 100 GB of available disk space

Up to 400 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 400 concurrent clients With a total student population of 1,500 Requires one dedicated physical server	
Server running: Web, Application, and Database	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Core 2 Duo 2.13 GHz processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Single 7200 RPM SATA hard drive 100 GB of available disk space

Up to 1000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 1000 concurrent clients With a total student population of 10,000 Requires one dedicated physical server	
Server running: Web, Application, and Database	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Xeon® 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 100 GB of available disk space

Up to 3000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 3000 concurrent clients With a total student population of 20,000 Requires one dedicated physical server	
One Server running: Web, Application, and Database	
Can be:	Windows Server 2003 SP2 (x64) Windows Server 2003 R2 SP2 (x64) Windows Server 2008 SP2 (x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x64) Mac OS X Server 10.6.x (x64) Novell Open Enterprise Server 2 (x64)
With at least:	Dual Intel Xeon 2.66 GHz quad core processors 12 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Four 15000 RPM SCSI or SAS hard drives in RAID 0+1 100 GB of available disk space

4

Multiple Server Deployment

The multiple server deployment is a model in which the main components of the software are installed on separate physical servers.

Typically, the servers are located in a district office or server farm used by the entire district or multiple schools. See Figure 4 - Sample Multiple Server Deployment.

Depending on the requirements, multiple servers may be necessary to handle the number of clients or to provide a central repository of district-wide data that is used for district reporting.

Multi-server installations vary by customer. A Pearson Sales Engineer should be involved early to discuss the best configuration to implement the product.

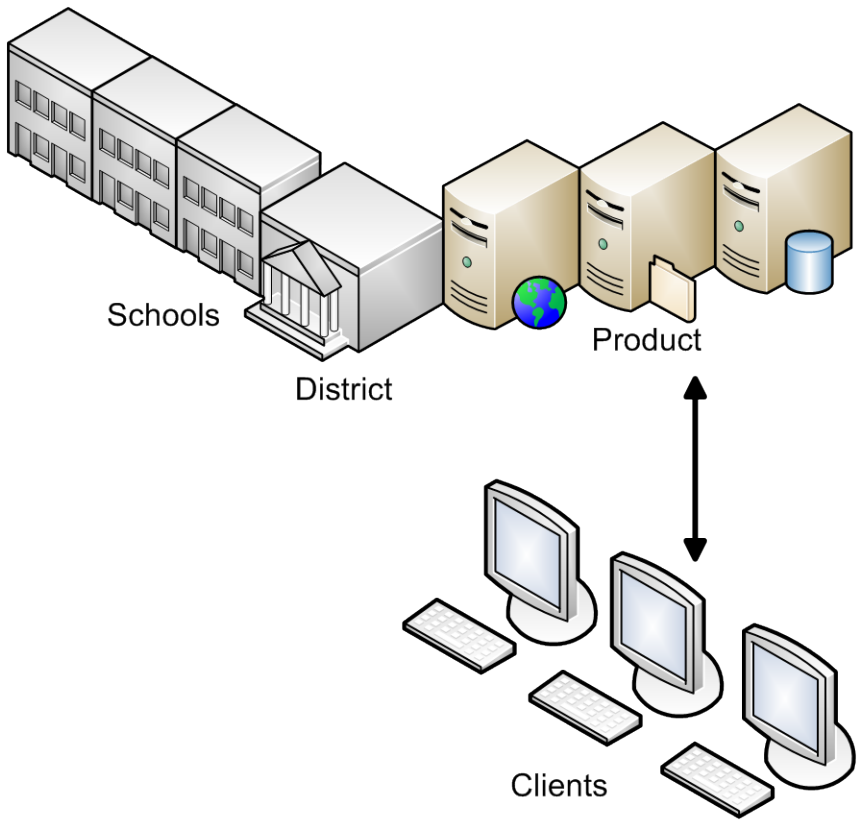


Figure 4 - Sample Multiple Server Deployment

Up to 5000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 5000 concurrent clients With a total student population of 50,000 Requires three dedicated physical servers	
One Server running: Web and Application	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Xeon 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 30 GB of available disk space
One Server running: Application	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Xeon 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 30 GB of available disk space

Supports up to 5000 concurrent clients With a total student population of 50,000 Requires three dedicated physical servers	
One Server running: Database	
Can be:	Windows Server 2003 SP2 (x64) Windows Server 2003 R2 SP2 (x64) Windows Server 2008 SP2 (x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x64) Mac OS X Server 10.6.x (x64) Novell Open Enterprise Server 2 (x64)
With at least:	Dual Intel Xeon 2.66 GHz quad core processors 12 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Four 15000 RPM SCSI or SAS hard drives in RAID 0+1 100 GB of available disk space

Up to 7000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 7000 concurrent clients With a total student population of 50,000 Requires three dedicated physical servers	
One Server running: Web and Application	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Xeon 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 30 GB of available disk space
One Server running: Application	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Xeon 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 30 GB of available disk space

Supports up to 7000 concurrent clients With a total student population of 50,000 Requires three dedicated physical servers	
One Server running: Database	
Can be:	Windows Server 2003 SP2 (x64) Windows Server 2003 R2 SP2 (x64) Windows Server 2008 SP2 (x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x64) Mac OS X Server 10.6.x (x64) Novell Open Enterprise Server 2 (x64)
With at least:	Four AMD Opteron 2.20 GHz quad core processors 32 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Four 15000 RPM SCSI or SAS hard drives in RAID 0+1 100 GB of available disk space

5

Web/Content Server

The Web content server can be used for home access or to reduce network traffic between buildings.

Typically, the server would be located in the DMZ for home access, or in a school building in a district deployed installation with low bandwidth between the school and district office. See Figure 5 – Sample Web/Content Server.

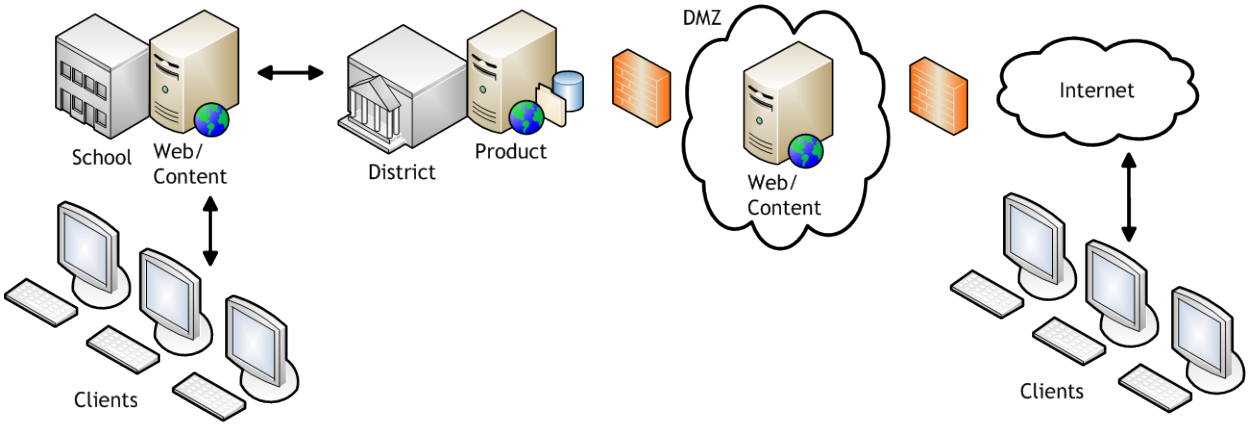


Figure 5 – Sample Web/Content Server

Up to 80 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 80 concurrent clients Requires one dedicated physical client or server	
Client or Server running: Web	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64) Windows XP Professional SP3 (x86) Windows Vista Business SP2 (x86) Windows Vista Ultimate SP2 (x86) Windows 7 Professional (x86) Windows 7 Ultimate (x86) Mac OS X 10.5.x (x86) Mac OS X 10.6.x (x86)
With at least:	Single Intel Pentium 4 3.0 GHz processor 1 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Single 7200 RPM SATA hard drive 30 GB of available disk space

Up to 2000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 2000 concurrent clients Requires one dedicated physical server	
Server running: Web	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Core 2 Duo 2.13 GHz processor 2 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Single 10000 RPM SCSI or SAS hard drive 30 GB of available disk space

Up to 7000 Concurrent Students

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Supports up to 7000 concurrent clients Requires one dedicated physical server	
Client or Server running: Web	
Can be:	Windows Server 2003 SP2 (x86 or x64) Windows Server 2003 R2 SP2 (x86 or x64) Windows Server 2008 SP2 (x86 or x64) Windows Server 2008 R2 (x64) Mac OS X Server 10.5.x (x86 or x64) Mac OS X Server 10.6.x (x86 or x64) Novell Open Enterprise Server 2 (x86 or x64)
With at least:	Single Intel Xeon 2.66 GHz quad core processor 4 GB of RAM Single 1000 Mbit/s Network Interface Card Dual-layer DVD-ROM Two 10000 RPM SCSI or SAS hard drives in RAID 1 30 GB of available disk space

6

Windows Clients

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Windows Clients	
Can be:	* Windows XP Home SP3 (x86) Windows XP Professional SP3 (x86 or x64) * Windows Vista Home Basic (x86) * Windows Vista Home Premium (x86) Windows Vista Business SP2 (x86 or x64) Windows Vista Ultimate SP2 (x86 or x64) * Windows 7 Home Premium (x86) Windows 7 Professional (x86 or x64) Windows 7 Ultimate (x86 or x64)
With at least:	Single Intel Pentium M 1.4 GHz processor (XP) 1 GB of RAM (Vista/7) 2 GB of RAM Single 100 Mbit/s Network Interface Card Single 5400 RPM IDE hard drive 1 GB of available disk space Capable of 1024x768 resolution Any Creative Labs or 100% compatible sound card Any Speakers or Stereo Headphones Microphone with noise canceling
And installed:	Internet Explorer 6.x SP2, 7.x, 8.x or 9.x (x86) Java Runtime Environment 1.5.14-21 or 1.6.x (x86) Adobe Reader 8.x or 9.x (Teacher only) Adobe Flash Player 9.x or 10.x
* Note:	Not supported in LAN environments 64 bit clients are supported only when using 32 bit browser and plug-ins.

7

Mac Clients

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

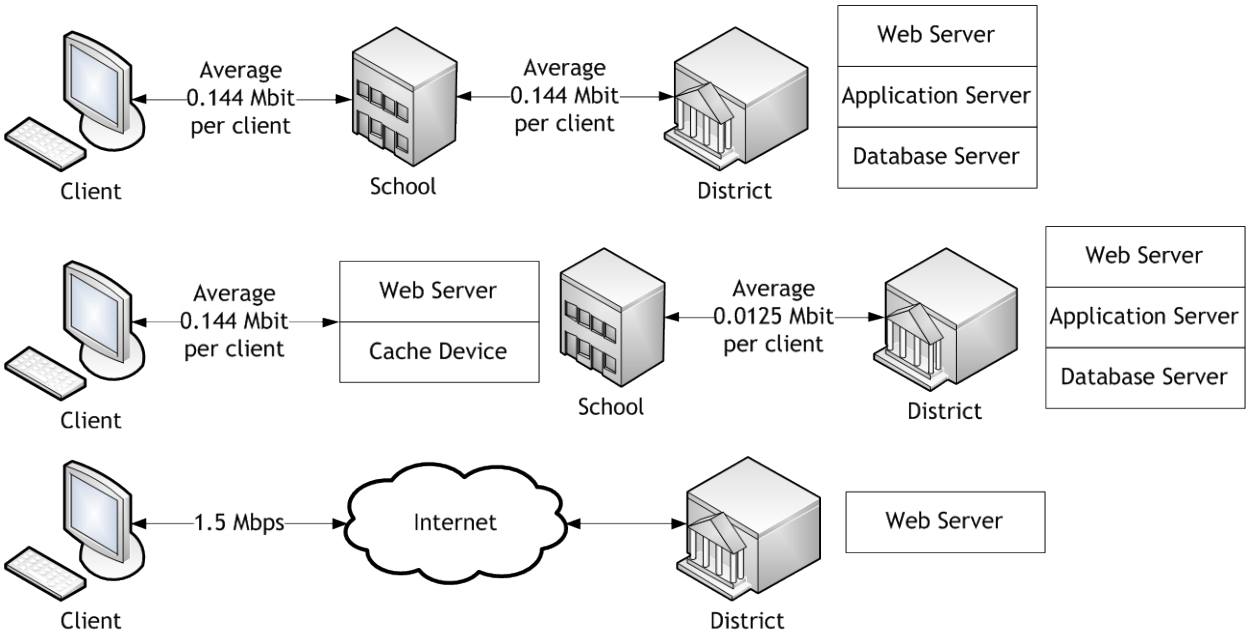
Mac Clients	
Can be:	Mac OS X 10.5.x (x86 or x64) Mac OS X 10.6.x (x86 or x64) Mac OS X 10.7.x (x64)
With at least:	Either a Single PowerPC G4 1.4 GHz processor Or a Single Intel Core Solo 1.5 GHz processor 1 GB of RAM Single 100 Mbit/s Network Interface Card Single 5400 RPM IDE hard drive 1 GB of available disk space Capable of 1024x768 resolution Any Creative Labs or 100% compatible sound card Any Speakers or Stereo Headphones Microphone with noise canceling Griffin iMic USB audio adapter
And installed:	Safari 3.x, 4.x or 5.x (x86) Java Runtime Environment 1.5.14-21 or 1.6.x (x86) Adobe Reader 8.x or 9.x (Teacher only) Adobe Flash Player 9.x or 10.x
64 bit clients are supported only when using 32 bit browser and plug-ins.	

8

Network Bandwidth

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Network Bandwidth Requirements	
School, District, or Home	
	
Wireless	
Spectrum:	802.11A or 802.11N in 5 GHz spectrum In properly configured networks, wireless should be acceptable with 15 to 30 stations per access point.
* Note: Estimates based on product traffic only, without overhead	

9

Firewall Settings

The following table is a guide to firewall settings.

Component	Port	Inbound	Outbound
Web	80 (HTTP)	Yes – to allow clients access to the product	Yes – to allow product updates
Web	443 (SSL)	Yes – to allow clients access to the product	No
Application Database	80 (HTTP)	No	Yes – to allow product updates
Application	18009 (AJP)	Yes – to allow Web server to access to application server	No
Application	445 (SMB) 137, 138, 139	Yes – to allow other application servers access to common user assets folder	No
Database	5432	Yes – to allow application server access to database server	No
Web Application Database	18080	Yes – only for administrative purposes	No